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BOOL AdiaRemove( BOOL bRemoveFromPlacements )
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AD.CFF
                                                                                                                                                                                                                                                                                                                               fafmain.commit();
return( bRc );
                                                                                                                                                                                                                                                                                   char buf [1024] ;
                                                                                                                                                                                                                                                                      TAILS (TRUE)
                                                                                                                                                                                                                       /// Delete the user interests from the placement_interests table
                                                                                                                                        unununununununununununununununununun
                                                                                                                                                                                                                                                                                                                                                                                                                                     weprint({ but, "ineert placement_pages(ad_id.page_id,include) values(id.id.id)".
   adiD, dwPageiD, includePages );
                                                                                                                   ASSERT( 0 );
brc - FALSE;
                                                                                                                                                                                            break
                                                                                                                                                                                                   ASSERT ( 0 );
brc - FALSE;
                                                                                                                                                                                                                                                                                                                                                                                                                        if (lafmain.exect buf ) !- 1)
                                                                                                                                                                                                                                                                                                                                                                                                                                                           targetPages.GetNextAssoci pos. dwPageiD, bJunk };
                                     ASSERT( 0 );
bp.c - Palse;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         . targetPages.GetStartPosition();
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ASSERT( 0 ) /
brc - FALSE;
                                                                                                                                                                                                                                                                                                                                                                                                          ASSERT ( 0 )
                                                                                                                                                                                                                                                                                                                                                                                                    bac . FALSE
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                                      DC 069520
                CONFIDENTIAL
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                                   ніенгь
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AD.CFP
                                                                                                                                                                                              void AdiiPeset ()
                                                                                                                                                                                                                          fafmain.commit();
return( bRC );
    hoursolday - Oxicitici
nEmployees - DefaultMaski
                                      domainType - DefaultMask;
                                                                                    maxAmount = 0;
m2PONumber.Empty();
                                                                                                                                                                  daysOfMeek - 0x7f;
                                               browser - DefaultMask;
                                                        os . DefaultMaak;
                                                                                                                                    nagimpressions - 0;
salesvolume - DefaultMask
                           isp - DefaultMask;
                                                                                                                            ype . Normal;
                                                                                                                                                requency = 0;
mageseries • FALSE;
                                                                                                                 mainType - 0:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ASSERT! 0 );
brc - FALSE;
                                                                                                                                                                                                                                                                                                                                                                                                                                        ASSERT! 0 1.1
bpc . FALSE:
                                                                                                                                                                                                                                                                                                                                                                                                 (bremoveFromPlacementa)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              break;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        break;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       bRe - FALSE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ASSERT ( 0 )
                                                                                                                                                                                                                                                                                                                                                                             ппинининтининтининтининтинин
                                                                                                                                                                                                                                                                                                                                                   sprintff buf, "delete pl
                                                                                                                                                                                                                                                                                                          ASSEPT! 0 );
brc . false;
                                                                                                                                                                                                                                                                                                                                         (iafmain.execErrOK( but
                                                                                                                                                                                                                                                                                                                                                                cable
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CONEDENTIVI HICHTA -) * .			eription.Empty(); sme.Empty(); b.Empty();	Pages.RemoveAll(); Sices.RemoveAll(); segories.RemoveAll(); secs.RemoveAll();	tions - MULL;	e - wuit,	Next . Or	
									19-5
					· .			÷	an-1996 15:58
							, <i>.</i>		

Page 9(9)

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$5.CFF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     DOOL AdirBook! DWOPD advertiserID !
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      cher buf | 1024 | 1 cher estime! 10 11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             // If this is a barter ad. if (type -- Barter)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          stropy( but, *insert placements(jumpto,max_impressions,type,os,browser,domai
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   If (nadvertiserID)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 streat ( buf. .) values ( ) )
                                                             screat! buf. ")" );
                                         it (latmain.exect but ) 1-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    erreatine)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ASSERT! 0 );
return! FALSE );
                                                                                                                                                                       erfrime extime, 9. "\m/\d/\y".
erfcar( buf, "," );
addvalue( buf, extime, FALSE );
                                                                                              etritime; extime, 9, *\m/\d/\y*, gmtime; &cndTime
etrcat( buf, "," );
eddvelue; buf, extime, FALSE );
                                                                                                                                                                                                                   (atartTimo)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ecreatt but. ".end_cime" );
                                                                                                                                            (endTime) ;
               ASSERTE 0 ):
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           maximpressions -
                                                                                                                                                                                                                                                                                                                                                                                                                                                  max impressions
                                                                                                                                                                                                                                                                                            maxAmount );
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                                                                                                                                                                                                                                         ())ename, FALSE );
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                                                                                                                                                                                                                                                                                                                                                                               equency );
                                                                                                                                                                                                                                                                                                                                                                   rertieerID );
                                                                                                                                                                                                                                                                                                                  esvolume 17
                                                                                                                                                                                                                                                                                                                                                                                                            nType 11
                                                                                                                                                                                                    gmtime ( setartTime )
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AD.CPP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           DOOL Ad: (Update()
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               // Get the ID of the newly added ad int addb - 0:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        return( AddPlacementTables( adID ) ):
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       f (radio)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       To update an ad. we and re-book it.
[Removed FALSE ]]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ASSERT( 0 ):
return( FALSE ):
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ia(main.commit();
                                                                                                                                                                                                                                                                                                                                                                 char buf[1024];
char extime[ 10 ];
                                                                                                                                                                                                                                                                                                                                                                                                          flage | AdiiTargetedi
                                                                                                                                                                                                                                                                                                                                                                                                                                                   (lags *. AdiiTargeted)
              "stact_time-"),
                                                                                       "description-" );
                                                                                                                                                                 mage_series. );
```

Cursor C: c.bind(SQL_C_LONG, &adID, 4); strcpy(buf, *select max(id) (rom placements*); c.exec(buf); // Pe-determine if the ad is targeted
double deerAdCost - CalculateCostPerAd();
if idPerAdCost -- DASE_AD_COST) strepy! buf, "update placements set "); // Don't update max_impressions if this is a barter ad. If credits the placement so we don't want to overwrite the // credits redits. streatt buf, 'max_impressions-"): delete the existing 19-Jan-1996 15:58 addvalue(buf, maximpressions); jumpTo 11 f, gender 11 f, active 11 approved 11 fileName 11 daysofweek);
nemployees);
selesvolume);
addescription);
matanama); (1498) (requency); mageSeries 11

Page 4(9).

```
BOOL AdviAddPlacementTables ( DWORD adID )
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ŝ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         char buf (1034) ,
BOOL bac - TRUE;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           return ( FALSE ) /
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   return( AddPlacementTables( id ) );
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            etreat! buf, 'where id.' );
addvalue! buf, id, PALSE );
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  streat { buf, *end_time**);
if {endTime}
                                                                                                                                                                                                                                                                                                                                                                                            // Now save the locations to the "placement_locations" table
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  if (lafmain.exect buf ) !- 1)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    etreat( buf, *(nulll* );
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          erfrime arrime, 9. "im/id/ly", gmrime ( sendrime ) );
addvalue ( buf, arrime, FALSE );
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ecreact but, "(null)." );
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           atritime( stime, 9, 'im/id/iy', gmtime( istartime ) );
addvalue( but, attime );
                                                                                                                                                                                                                                                                                               If (!]ocations[nLoop].state.lsEmpty(!)
streat( buf, *state,* );
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ASSERT( 0 );
return( FALSE );
                                                                                                                              addvalue( but, locationsInLoop).state 1/
if (ilocationsInLoop).sipCode.lsEmpty())
                                                                                                                                                          addvalue( but, locations[nLoop].country );
if ()]ocations[nLoop].state.tsEmpty())
                                                                                                                                                                                    If (locations intoop) .country)
                                                                                                                                                                                                             streatt but, "ad_id) values(" );
                                                                                                                                                                                                                                            if (locations inLoop) .areaCode) erreat( but, "areaCode," );
                                                                                                                                                                                                                                                                     if (!locations(nLoop).sipcode.laEmpty(!)
streat( but, "sipcode." );
                                                                                                                                                                                                                                                                                                                                atreat | buf, "country," );
                                                                                                                                                                                                                                                                                                                                                                erropy( but, "insert placement_locations(" );
                                               addvalue( buf, adiD, FALSE );
streat( buf, ")" );
                     if (tofmain.exect buf ) i. i.
ASSEPT! O I
                                                                                        addvaluet but. locations intoop).areaCode li
                                                                                                                  ddValuet but. locationsintoopl.zipCode );
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AD.CPP
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                                                                                                            DHOPD dwSiteID;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      vaprint(| but, "insert placemont_sitecats(ad_id,interest_id) values(td,td)".
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        vsprint(| buf, *insert placement_elce(ad_id, elccode) vslues(id, 'is')*,
adip, elcCodes| nLoop |.asText() | |
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    siteCategories.GetNextAssoct.pos, dwinterestiD, blunk is
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             it (ialmain.exect but ) (+ 1)
                                                                                                                                                                                                                                                                                                         usprint(| buf, "insert placement_interests(ad_id,interest_id) values(id,id)",
adio, dvinterest(D );
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               if (lafmain.exect buf ) !- 1)
                                                                  targetSites.GetNextAssoci pos, dvSitein, blunk li
                                                                                                                                                                                                                                                                                                                                                Interests.GetNextAssoc( pos, dwinterestID, blunk );
                          waprint(| buf, "insert placement_sitesiad_id,site_id,include) values(id,id,id)",
    adiD, dwSiteID, includeSites l.
                                                                                                                                                                                                                                                                             if tiafmain.exect buf 1 !- 1}
if (fulmain.exect but ) to 11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  brc . FALSE;
break;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ASSEPT( 0 );
brc . FALSE;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       bPc - FALSE;
                                                                                                                                                                                                                                          bRC . FALSE;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ASSEPT(0);
                                                                                                                                                                                                                                                      ASSERT! 0 1:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             bJunki
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              adiD, dwinterestiD );
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Finclude *etdataih*

Finclude *objecté.h*

Finclude */d/coolkit/db.h*

Finclude */d/coolkit/laf_util.h*

Finclude */d/coolkit/dbutil.h*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      // eltepage.cpp
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SitePage * SitePage : 1 lookupPage (Databases db.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    extern DOOL defaultAdaMode;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     void message (const char *s);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            vold SitePage::loadCategories()
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             // from key format: sitekey/docname
if( from -- 0 )
return 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            {{{ *from ** 0 }
    return 0;
const char *q ** strehr(from, '/');
{{ q ** 0 } | strien(from) > 75 }
    return 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      c.bind(SQL_C_LONG, sinterest(D, sizeof(interest(D));
char eq[11034] - "select interests_id from page_categories where page_id.";
addvalue(eq), jd. FALSE);
streat(eq), "union all select interests_id from site_categories where site_id.");
stdvalue(eq), siteID, FALSE);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           from .. 4;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                categories.Add(interestID);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         categorized . FALSE,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CString keys
                                                                                                                                                                                                                                                                                                                                                                       SitePage .p . new SitePage:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             // truncate a unique number from the end of the key conet char lastBlash - strrchr(q · 1, '/'); f( lastBlash & isdigit(lastBlash)) | temps | t
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         if( key.Geilength() > 64 )
key - key.Left(64); // truncate to column width
                                          ddvaluetegl, key, PALSE);
                                                                                                                                                        .bind(SQL_C_LONG, &p->id, 4);
.bind(SQL_C_LONG, &p->elteID, 4);
.bind(SQL_C_LONG, &p->cetegorized, 4);
                                                                                     relact ideate, categorised from eltepages where keylame."
etchnoat () ) .
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ·www.*, 4) -- 0 ]
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     const char *from, const char *requestHdr)
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SITEPAGE.CPP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     void SitePage::add(Databases db. const char *keynamo)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               // Didn't find the page. Add page if site is correct.
                                                                                                                                                                                                                                                                                                                                                                                                                                         char buf [512] . "Ineert eitepages (junk, keyname, eite,
c.bind/SQL_C_LONG. &id. 4);
c.bind/SQL_C_LONG. &id. 4);
etropy(buf. "select id (fom attepages where keyname.");
addvalue/buf. keyname. FALSE;
c.esec(buf);
                                                                                                              Cursor c(db):
                                                                                                                                                                                                                                                                                                                                                                                ddvalue(buf, keyname);
ddvalue(buf, (int) eitelD);
ddvalue(buf, (int) categorized, FALSE);
                                                                                                                                                                                                              CString e . "eql: ";
e . buf;
ASSERT(FALSE);
TPACE(s);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CString siteKey(from, q - from),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  c.bind(SOL_C_LONG, &p-selte(D, elteof(p-selte(D));
c.bind(SOL_C_LONG, &epproved, siteof(approved));
CString aql - "select id.approved from eltee where keyname"";
aql - eiteKey ' '\'';
                                                                                                                                                                                 message (s) :
                                                                                                                                                                                                                                                                                                     PACE ( error adding sitckey \n ) !
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       p = 0;
if( |defaultAdaMode |)
message( CString("unknown site: ") + (rom );
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          delete pi
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  c.(etchNext() ) {
    (...approved -- 0 ) {
        measage( CString(*unapproved site; *) . (rom
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                20-Jan-1996 10:12
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void Adircalesi()
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//
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 const CString gifshootDir - "c:\\ian\\ads\\";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Ad. 1-Ad()
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              extern Database isfmain/
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 int idefined(_DERIVE)
int indefi) ( return ade.GetSize(); )
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             include 'etdefx.h'
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     delete[] sicCodes;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (Ad(const Ads ad)
                                                                                                                                                                                                                                                       atripSpaces(fileName);
atripSpaces(jumpTo);
iff maximpressions -- 0 ) return:
                                                                                                                                                                                    sicCodes . new SicCode(nSicCodes) 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     d/newaderive/alg.h*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   d/toolkit/ist_util.h.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               /toolkit/dbutil.h*
                                                                                                                                                                                                                                                                                                                                                       Day), daysofweek(ad.daysofweek),
                                                                                                                                                                                                                                                                                                                                                                                           mpressions), nShown(ad.nShown),
ns), nSICCodos(ad.nSiCCodos),
), lmagewories(ad.imsgesories), endTime(ad.endTime),
nt), startTime(ad.startTime), endTime(ad.endTime),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     jumpto(ad. jumpto),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            19-Jan-1996 15:58
                                        DC 069517
     CONFIDENTIAL
                                      HICHEL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Page 1(9)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AD.CPP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         // if{ nShown 1 8 **
// // update S1
// calcS1();
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           void Ailinhown()
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Ad::Ad()
                                                                           CString AdminiliNameth
                                                                                                                                                                                             CString AdiigetFileName()
                     HIE !defined [_ADSVP]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      time t ti
DWORD totalSpan - endTime - etartTime;
i(i totalSpan - 0)
totalSpan - 1;
DWORD span - time(it) - startTime; i(i span - 0) span - 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (DMORD) (((double) nShown / ((double) span / totalSpan) / maximpressions) • 1000);
                                                                                                              char buf12561;
waprintf(but, *vald.gif*, (const.char *) fileHame.bett( fileHame.GetLengthf)
return buf;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     daysOfHeck - 0x7f1
                                                                                                                                                                                                                                                                                                                                                                                                                                                             type - Normal's
                                                       return gif#RootDir .
                                                                                                                                                            f(t limageSeries || seriesNext c= 1 )
return (lieName;
                                                                                                                                                                                                                                             hoursofDay - Oxfertet
nEmployees - DefaultMask;
salesvolume - DefaultMask;
gendor - DefaultMask;
                                                                                                                                                                                                                                                                                                                                                              ncludePages - 0;
ncludeSites - 0;
                                                                                                                                                                                                                                                                                                                                                                                                    Ctive - 0:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            tarted - PALSEr | SpreadEvenly:
                                                                                                                                                                                                                                                                                                                                                                                          pproved - 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                equency 01
                                                                                                                                                                                                                                                                                                                 rowser . DefaultMaski
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Aimpressions - Or
                                                                                                                                                                                                                                                                                                                                                                                                                                     10 - 4110131
                                                                                                                                                                                                                                                                                                                                Default Mask,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    eries - FALSE;
                                                                                                                                                                                                                                                                                                                                                                                                               0 - 1und
                                                                                                                                                                                                                                                                                         Type - DefaultMask:
DefaultMask:
                                                             get FileName () t
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  19-Jan-1996 15:58
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           719
```

3(9)

```
pinclude *etdafx.h*
Binclude *objects.h*
Binclude */d/toolkit/db.h*
Binclude */d/toolkit/laf_util.h*
Binclude */d/toolkit/dbutil.h*
                                                                                                    User* User.,_lookupUserDyID(Database& db. DNORD userID, BOOL *timedOutl
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 USERS.CPP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             User: User::_lookupUserByAddress(DWORD ip)
                                                                                                                                                                                                                                                                                              void UseriilookupAncillaryInfo(Databases db)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       class UserCursor + public Cursor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           // users.cpp
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Jer. User: _lookupUserByID(DMORD userID)
                                                     User 'u - new User;
UserCursor c(db, u);
c.minimalBind();
char sql[128];
                                                                                                                                                                                                                                                             return;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        DWORD userID - networkNodeTable.getUserID(IP, FALSE);
                                                                                                                                                                              char eq!(138); "select email from usors where id-11d", userID); usprintf(eq), "select email from usors where id-11d", userID); c.bind(emailhddr); c.basc(eq));
                                                                                                                                                                                                                           Cursor c(db)
                                                                                                                                                                                                                                                                                                                                                                                                                                                        UserCursor(Databases db.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              User 'u . new Useri
                                                                                                                                                                                                                                                                                                                                                                                                       // just gets field that aren't derivable from request header yold minimalBind()
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          recurn 01
( userID ) (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             return _lookupUeerRyID(userID);
                                                                                                                                                                                                                                                                                                                                                                     bind! SQL_C_LONG, &u->ftpTried, elreof(BOOL) );
bind! SQL_C_LONG, &u->hasCookie, elreof(BOOL) );
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Try to get domain info at least-
identifiable, derive data process
user as soon as it gets a chance-
                                                                                                                                                                                                                                                                                                                                                                                                                                                           User ._u) , Cursor(db).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         to at least. Note: if user is uniquely data process will create a record for the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        29-Dec-1995 16:52
                                                                                                                                                                           DC 069514
                                                                                                                                              CONFIDENTIAL
                                                                                                                                                                             HICHLY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        USERS.CPP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    c.exec(sq1);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      if: c.timedOut() ) (
*cimedOut - TRUE;
delete u; u - 0;
                                                                                                                                                                                                                                                                      db.exec(bu();
db.comm(t();
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               delete ui
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    u-yuserID + userID;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                return us
                                                                                                                                                                                                                                                                                                                                                                                ASSEPT (FALSE) :
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         User .u . new User!
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            iff c.timedout() ) [
                                                                                                                                         // add to DB char bull40961 •
                                                                                                                                                                                                                                                                                                                     char buf [256];
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              aprintfi eql, 'select
                                                                                                                                                                                                             ill trempuserObject() )
                                                                                                                                                                                                                                                                                                                                                                                                                                                        return u:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        delete u:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   u • 0;
                                                                                                        ddninvalue(but. ip);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  *timedOut * TRUE;
delete u;
```

DC 069515

CONEIDENTIVE HIGHEN

(t) db.doineerk(buf) -- 1) (
Cureor c(db);
c.bind(80L_C_LONC, suserID, 4); ASSENT(userID 1. 0);

Page 3(3)

```
SERVER. CPP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             // eerver.cpp
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         const char cHTTPVeril - "HTTP/1.0 ";
const char cContentLenil - "Content-Length: ";
const char cErrHeaderil - "thisError";
const char cErrTeileril - "t/hi>";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                void sendirror(Connection .c.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ofatream erriogi
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    extern int nilstenerThreads;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       #include */d/toolkit/crit.h*
extern CriticalSection fast:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ninclude "request.h"
linclude "mgmtrequest.h"
linclude "mgmtrequest.h"
linclude "request.h"
                                                                                                                                                                                             DOOL addressOR(const sockaddr_int from)
                         vold servicePequest (Connection .c. const sockaddr_int from)
// III. laddressOxifrom) )
// return/
                                                                                                                                                                                                                                                                                                                                                                                                                                        cher bufflol r
                                                                                                                                            iti from.ein_addr.S_un.S_un_b.e_bi -- 206 44
from.ein_addr.S_un.S_un_b.e_bi -- 4 44
from.ein_addr.S_un.S_un_b.e_bi -- 219 )
                                                                                                                                                                                                                                  c-verice (const char .) s. s.GetLength() );
                                                                                                                                                                                                                                                                                                                                                                                                                 CString . CHTTPVeri
                                                                    return FALSE,
                                                                                                                                                                                                                                                                                                                                                                           .. eContentHLI
                                                                                                                                                                                                                                                                                              nt len - strien(msg) - strien(cErrHeader) - strien(cErrTrailer);
.- itos(len, buf, lo);
.- *\r\n\r\n*;
                                                                                                                                                                                                                                                                                   .. cgrrHeaders.
                                                                                                                                                                                                                                                             .. ctrrtrailers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            esage (const char *) ( )
                                                                                                                                                                                                                                                                                                                                                   .. headerField:
                                                                                                            // IAF network
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   · Latrequest.h.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Ined! IAF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           e (const char *);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               crequest.h.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          /toolkit/mapetate.h.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               coolkie/erutil.h.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   *Content-Type: cext/html\r\n*;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      const char 'meg, const char 'headerField)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             16-Jan-1996 14:03
                                                            DC 093215
                                        CONEIDENLIVE
HICHEK
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Page 1(4)
```

```
SERVER. CPP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          =
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  const BUFLEN - 32768;
char buf(BUFLEN);
buf(1) - 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           int count Down + 0:
                                                                                                                                                                                                                                                                                                                                                                                            if( attnicmp(but, "get ", 4) .. 0 ) {
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    const char *p;
if( | p - stratribut, *\r\n\r\n*1) !- 0 } {
const char *c! - stratribut, *Content-length:*);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Iff nPead .. 0 1 (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          int toRead . DUFLEN . n . l:
                                                                                                                                                                                                                                                                                                                                    lse if dermicompibut, "head ". 5] -- 0 ] {
v - HEAD;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 et joni i ReadError err
                                                                                                                                                                                                                                                                                              return;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ill countbown .. 0 )
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              17 (161)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Count Down ) {
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           cl -- 151
                       seulkeroric, .sol Not implemented 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          DOLDOND ..
                                                                                                                else il err -- Connection::PeadErr ) | message ("empty request, readerr");
                                                                                                                                                     message("empty request, timeout");
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         error
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  breakı
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              cl = stretr(buf, cContention);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 countDown -- strien(p . 4): // decrement by what countDown -- n . ((p . 4) . bu(); // decrement by
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            sacant(cl. "Vld".
                                                                                                                                                                                            message(*empty request, buf!*):
                                                                         measage ("empty request, err.OK?");
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              nRead:
                                                                                                                                                                                                                         100 had request 11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        // Content-length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 COUNTDOWN) !
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               // total n bytes read
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           16-Jan-1996 14:03
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                // decrement by what we've already got
```

nThread...

if defined(_lxP)

if nThread...

if nThread...

if nThread...

qrPurge(); 1 three riscenur *iletener * Or iAFRequest gric, v. r. (rom);
selif defined(_AD\$VR)
GetRequest gric, v. r. (rom); SERVER. CPP JINT listemerThread(LPVOID) inc maxthreads - 1: II defined(_IAF) #if defined(_ADSVR)
if(| openTablee()) {
 AgmeasageBox(*Error opening tables*);
 return FALSE; OOL startServer!) while()) (
contended_in from;
connection *c - listener-vesitForConnection((from); etatic DMORD ad . GetTickCount(); arand(ad..); gr.service(); igmeRequese gric, v. r. (rom); mapStateInit(); initCountryTimeZoneTable(); return FALSE: Connection c:

1f | c.connect ("www.microsoft.com", 80) } {
 c.write("GET /sedf HTTP/1.0\r\n\r\n", 32); serviceRequest(c, (rom); selete c; while() | char buf[256]; int n - c.read(buf, 255); 16-Jan-1996 14:03 DC 069513 CONEIDENTIVE HICHEN Page 3.(4) In late SERVER. CPP int port - PORT #endi(sit defined [_NDSVP] errlog.txt*, listener - new Listener(port): return TRUE! ASSERT(errlog.19_open());
errlog 44 ad server state forf int 1.. 0; i entietementhreads; i..) {
 Sleep[100]; // [dam] this is a test; sometimes it doesn't listen right, just a hunch
 A(xDeginThread(listenerThread, 0); return TPUE; ASSERT (FALSE) į port - 80; else break; If (n) {
 buf(n) - 0;
 TRACE(**)*. buf); ad server started\n*; errlog.flush(); 16-Jan-1996, 14103

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```
DC-069510
```

HIGHLY

Cursor cr Cursor cr c, bind(sic)

i(n > 100)

message (">100 SICs targeted");

```
SQLDS.CPP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Letmain.commit();
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      // load eltes to include/oxclude for [ Int i = 0; i < ade.GetSize(); i...) [
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    if | ad-vid -m cBadkeyAdiD && forTargeting ) {
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Ad .ad . new Adirs.ad) ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             c.bind( SOL_C_LONG, &siteID, sizeof(siteID) );
c.bind( SOL_C_LONG, &include, sizeof(siteIude) );
char aq[1512] - *select site_id,include {rom placement_sites where ad_id=";
addvelue(eq1, ad.id, FALSE);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Ads ad - *ads.CotAt(i);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             111,0 - 31 1 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 // Load site exclusions of placements. If exclude this ad-
// and AdvinctudeSites is TPUE, remove site from map. If
// exclude this ad, and AdvinctudeSites is PAUSE, add this
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       JOOL includes
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (ff defaultAd -- 0 is ad->type i- Adirteet is lad->istargeted() )
defaultAd -- adi
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         delete badxeyErrorAdı
badxeyErrorAd • adı
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  message ("Increase AdiitargetSites hash size");
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            let c.ferchHeat() ) (
if ad.targesSices.fetBepty() ) (
ad.targesSices.fitHeatTable()7);
ad.includeSices = include;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ad.targetSites.SetAt(siteID, TRUE)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               MORD altein,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ds ad - *ads.GetAt(i); i++ ) (
                                                                                                                                                                                                                                                                                                                                                                          pind(SQL_C_LONG, seite1D, elteof(elte1D));
r eq[[512] - "select site_id from placement_banned where ad_id-";
ryalue(eql. ad.id. FALSE);
                                                                                                                                                                                                                   iff ad.includeSites ) {
                                                                                                                                                                                                                                                                                                                                                          r (191) r
                                                                                                                                                                                                                                                                ad.targetSites.leEmpty() ) {
ad.targetSites.initHashTable()7);
adjincludeSites - FALSE; // exc
                                                                  ad.targetSites.RemoveRey(siteID);
[if | ad.targetSites.GetCount() -- 0 |
[// since map is empty, will go to all sites.

// which is wrong. Descrivate.
ad.sartTime - ad.endTime - 0;
ad.sartTime - ad.endTime - 0;
message( CString(*error. no sites allowed for *) - ad.fileName );
                                                                                                                                                                                                                                                                                                                                        c. (etchNext () ) (
ad.targetSitem.SetAt(mitelD, TRUE);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        19-Jan-1996 10:15
                                                                                                                                                                                                                                                                             // exclude
```

```
SQLDB.CPP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      // load site/page categories
                                                                                                                                                                                                                                                                  // load sics
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                c.bind( SOL_C_LONG, &pagelD, sizeof(fragelD) );
c.bind( SOL_C_LONG, &include, sizeof(include) );
char sql[S12] = "select page_id,include (rom placement_pages where ad_id=";
addvalue(sql. ad.id, FALSE);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   while ( c.fetchNext() ) {
if( ad.targetPagea.laEmpty() ) {
}
id.targetPagea.lnitHaahTable()7);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           DWOPD page101
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      c.exec(9ql);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       while( c.fetchNext() ) {
   if( ad.siteCategorles.lsEmpty) ) {
   ad.siteCategorles.lnitHashTable(37);
}
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      C.bind! SQL_C_LONG. AinterestID. sizeof(interestID) ); char sql[513] - "select interest_id from placement_sitecats where ad_id-"; addvalue.sql, ad.id, FAUSE);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           DWOPD interestID,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 111 0 0 11 1
                                                                                                                                                                                                           11100111
                                                                                                                                                                 20 - 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              message (*increase AdiitargetPages hash size*);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ad.targetPagen.SetAt(page10, TPUE);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                continue.
                                                                                                                                                                                                                                                                                                                                   message (*Increase AdmisiteCategories hash size*);
                                                                                             c.bind(SOL_C_LONG, in, sizeof(n));
char sql[S12] - "select count(") from placement_sics where ad_id-";
                                                                                                                                                                                                     Continue,
             i( n -- 0 )
                                                                                                                                                                                                                                                                                                                                                                                                       ad.siteCategories.SotAt (interestID, TPUE);
                                              if ( ic.fetchNext() )
                                                                            ddvalue(sql. ad.id, FALSE);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ad.includeragee - include:
                                continue;
continue;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          a ads. CetSize(); i.. ) [
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    19-Jan-1996 10:15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     age 6(8)
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Page 5(8)

```
char eql[313] - "select siccode from placement_sics where ad_id-"; addvalue(eql, ad.id, FALSE);
tatmain.committi;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ASSERT( ic. (etchNext() );
                                                                                                                                                                                                                                                                                                                                                                                                                                                Dind(SOL_CLONG. in, sizeo((n));
inr eq1[S12] - *ealect count(*) (rom placement_locations where ad_id**;
idvalue(eq1, ad.id, FALSE);
                                                                                                                                                                                                                                                                                                                                                                    message (*>100 locations targeted*);
                                                                                                                                                                                                                                                                                        (SQL_C_LONG, Acountry, sizeof(country));
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    to dor count the f of SICe (iret, and allocate that number rather than 50 . new SICCode(n);
                                                                                                                                                                                                       C. CotchNext() ) (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       I ands. CotSize(); i.e.) [
                                                                                                                                               watry . countrys
                                                                                                                                                                     new Regionini;
                                                                                                                                                                                                                                    19-Jan-1996 10:15
                                    DC 069511
                CONEIDENTIVE
HICHEK
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SQLDB.CFP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         [[ ada.GetSize[] -- 0 is forTargeting ] {
   // db connection down, use some default ada
   makeDefaultAds[ads];
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TPACE("no default ad');
message("no default ad");
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   return ads.GetSiret) is o is defaultAd is 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              19-Jan-1996 10:19
```

Page 8(8)

```
// This is temporary. Used for non-unique users.
// Eventually will be smarter about what to send to
// these users.
Ad defaultAd = 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    extern CriticalSection (ast)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            // this ad displayed if a bad sitekey const cBadkeyAdiD = 49;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      // eqldb.cpp
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 10101.077
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   BOOL loadAds(AdArray& ads.
DWORD advertiserID.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   typedet Carrayend .. Ad .. Adarrays
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Database is[main;
void message(const char *);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            static int uctOfs; static void localToUCT(time_tf t)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   BOOL defaultAdaMode - FALSE;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     include */d/toolkit/is( util.h*
include */d/toolkit/dbutil.h*
include */d/toolkit/dbpool.h*
include */d/toolkit/crit.h*
                                                                                                                                                                                           // If ( topenDBPool () )
// return FALSE;
                                                                                                                                                                                                                                                                            // iff Hafmain.openil:)
// return FALSE:
                                                                                                                                                                                                                                                                                                                                                         BOOL openSQLDB()
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    include *etdafx.h*
                                                           void reloadAds()
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ·badReyErrorAd - 01
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    183033n ... 3
                                                                                                                                                                                                                                                                                                                    is(main.open();
openDBPool();
                                                                                                                             if( tloadAda(ada, 0, TRUE, TRUE, FALSE, FALSE) )
return FALSE;
                                                                                                      recurn TRUE,
message (-waiting to reload ads...");
AfricatApp() -- m_pMainMnd->invalidate();
AfricatApp() -- m_pMainMnd->UpdataMindow();
                                   DOOL OK . FALSE!
                                                                                                                                                                        return FALSE:
                                                                                                                                                                                                                                                                                                                                                                                    BOOL activeOnly.

BOOL includeExpired,

DOOL newestFirst.

DWOPD eleciD • 01:
                                                                                                                                                                                                                                                                                                                                                                                                                                          DOOL (orTargeting.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            d/toolkit/db.h.
                                                                                                                                                                                                                                                                                                                                                                                                                              // it torTargeting, update AdirtargetSites to reflect
site exclusions
/ active-1 only
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          19-Jan-1996 10:15
                                                     DC 069508
              CONEIDENTIVE
HICHEA
                                                                                                                                                                                                                                                                                                                                                                                                                               where all delivered
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Page 1(8)
```

```
SQLOB.CPP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          // note: this isn't getting called yet void closeSQLDBil
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 class AdCursor 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Adarray ads:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      // ....
                                                                      // ... TODO!!! This function is not thread-sale.
void recalcS!!
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      j ( { ok }
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          lafmain.close(),
for(, int. ! * 0; [ * ads.GetSize(); i** ) {
    Ads ad * *ads.GetAt(i);
    ad.coleSi();
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (Cursor ()
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    message("Ad reload completed OK");
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    message (*Ad reload failure!*);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sleep (50);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ok . loadAds (ads. 0, TPUE, TRUE, FALSE) .
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     delete ada.GetAt(1);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           dg.RemoveAll();
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     public Cursor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           sad.browser, eizeof(ad.browser));
sad.domainType, sizeof(ad.domainType));
tad.isp, sizeof(ad.isp));
                                                                                                                                                                                                      kad.approved, sizeo((ad.approved));
kad.nJumps, sizeo((ad.nJumps));
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Lad. 1d. 4) 1
                                                                                                                                                                                                                                                            sad.maxAmount, sizeof(ad.maxAmount));
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             and.frequency. mizeoffod.frequency));
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 sad.type, sizeof(ad.type));
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         O; i a ade.GetSize(); i...) (
                                                                                                                                                                                                                                                                                                              ad.hoursOfDay, sizeof(ad.hoursOfDay));
ad.daysOfMeek, sizeof(ad.daysOfMeek));
ad.nEmployees, sizeof(ad.nEmployees));
ad.salesVolume, sizeof(ad.nalesVolume));
                                                                                                                                                                                                                                                                                                                                                                                                                                                         id.imageSeries. mizeof(ad.imageSeries));
                                                                                                                                                                                                                                                                                                                                                                                                                                       .nShown, sizeof(ad.nShown));
                                                                                                                                                                                                                                                                                                                                                                                                         endTime. sizeo((ad.nShown));
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   sizeof (ad.os)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       19-Jan-1996 10:15
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HIGHLY
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```
static void makeDefaultAds(AdArrays ads)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      DOOL loadAds (AdArray& ads.
DWORD advertiserID.
DOOL forTargeting.
                                                                                                                                                                                                        "select id_type.os.browser.domainType.isp.tilename.jumpto.frequency.image_scries.\
as_impressions.d_stoom,datadiffis, '1/1/70', start_time).datadiff(ss, '1/1/70', end_time).\
flags.hours_of_day_days_of_week.employess.asles.active.description.man_amount.po_number.\
spproved.n_Jumps from placements';
                                                                                          if ( lincludeExpired ) {
    etrest eql, o where {max_impressions=0 or n_shown(max_impressions) and \
    etrest eql, or end_cimes-getdate()) *);
(end_time=null or end_cimes-getdate()) *);
    where o TRUE;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 message(*db connection failed, using default_ads.txt*); defaultAdsMode - TRUE;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      itetream defAde(*c:\\ian\\default_ade.txt*);
it( idefAde.ia_open() ) {
   ASSERT(FALSE);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      71101 1 T
                                                                                                                                                                                                                                                                                                                   pword active . Ir
getConfigValue("Active", active);
                                                                                                                                                                                                                                                                                                                                                                     ada.SetSize(0. 64);
                                                                                                                                                                               BOOL where . FALSE)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            char [n[128];
char jumpTo[128];
*[n * 0;
                                          if lactiveOnly)
                                                                                                                                                                                                                                                                                                                                                                                                                     c.GetLocalTm(alocal);
if( local.tm_hour > gmt.tm_hour )
  gmt.tm_hour += 24;
uctOfe - {gmt.tm_hour - local.tm_hour} > 60 - 60;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  defade >> in >> jumpTo:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            () calc time some adjustment ();
(Time t - CTime::GetCurrentTime();
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             t.GCtCmtTm(4gmt)/
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           lefaultAd - fadi
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        de. Add (sad) r
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             endrime - now - 60 + 60 .
it! where ! {
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            jumpto - jumpto:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              gmt, local:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   BOOL newestPirst.
DWOPD approveSiteID
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       BOOL includeExpired,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               // active-1 only
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            // include where enddate has past or where all delivered (for management and reporting...)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             // order from neve
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 // 0-all // orargeting. update AdvitargetSites to reflect
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             19-Jan-1996 10:15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             7age 3(8)
                                                                                                                                                                                                                                                                                          :::::::
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            rs.exec(eql);
```

SQLDS.CPP

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SQLDD.CPP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           if( where ) {
    streat(sq), - and");
    streat(sq), - and");
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      iff approveSiteID ) {
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               iff newestFirst ) {
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     // defaults in case null
rs.ad.(lags - 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           streatt sql. * active. ');
addvalue(sql, active, FALSE);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   strcat(sq), * not exists (select * from approved where site_id-*);
addValue(sql, approveSite(D, FALSE);
strcat(sql, * and ad_id-id)*);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       sercat(sql. * advertiser**);
addvalue(sql. advertiserID. FALSE);
                                                                                                                                                                                                                                                                                                                                                                                                                                                  // If for debug. don't load. You can make this test a registry
// setting if you like so that you can load debug records, or
// add a emd line setting.
if( irs.ad.isrroduction() )
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                iff irs. (etchNext () )
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                where . TRUE; streat(sql, "where");
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                where . TRUE; where );
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  erreat (sql. . and.) /
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 etrcat(sql, " where");
                                                                                                                                                                                                                                                                                                                                                                                               ift rg. (9Null(12) ) {
localToUCT(rs.ad.startTime):
localToUCT(rs.ad.endTime):
                                                                                                                                                                                               it! forTargeting )
                                                                                                                                                                                                                                    re. 18Null (12) ) {
                                                                                                                                                                                                                                                                                                                                            re.ad.startfime - time(snow):
re.ad.endTime - re.ad.startTime - 60 - 60 - 24 -
                                                                                                                                                                                                                    ad server needs take times for now.
                                                                                                                                            re.ad.etartime - time(thow) - 60 - 60 - 24 - 15; re.ad.endTime - now - 60 - 60 - 24 - 15;
                                                                                       rs.ad.startTime - rs.ad.endTime - 0:
                                                                                                                                                                                                                                                                         local Touct (re.ad. start fime);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        order by id desc"):
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      19.Jan-1996 10:15
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CONEDENTIVE HICHEN

old Requestimervice! old RequestiveendInternalError() const char *p * strchr(request. ' '); 1 Dest relif defined(_IAP) [- "C:\\laf\\html\\";

relif defined(_UNNGE) . "C:\\laf\\html\\"; eendError(c, *500 Internal Server Error*); (ilename - dstring(request, p - request); const char 'p - (lleName) (11eName - request) nderroric, *404 Not Found*)! drile(*c:\\lat\\html\\latmain.htm*); eendFile((); CEtring (- 'c:\\lan\\manage\\') ASSERT(FALSE); CString (- "jakid("; //CString (- "k:\\my documenta\\ad (ederation\\"; d default

03-Jan-1996 15:53

ROURST . CPP

Page 3 (3)

```
return key.userin * key.fromHashi
// default identity hash . works for most primitive values
// return (fUINT) (void-) (DWORD)key) >> 4;
                                                                                                                                                                                                                                                                                                                                                                               UINT Hashkey (Key key)
                                                                                                                                                                                            public:
                                                                                                                                                                                                                    Class Hemory
                                                                                                                                                                                                                                                                                          truct Value
                                                                           privates
// ratar fix
                        CHapaKey, Keys, Value, Values, sent; memory:
                                                                                                                                                                                                                                                        DWORD adsent;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                DWORD CromMash;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         vold setibluser .u)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     900L operator--(const keys k) const
                                                                                                                                                                                                                                                                                                                                                                                                                                                        roid setfromiconst char *from)
                                                                                                  void remember(Keys k, DWORD adiD);
DWORD lookup(Keys k);
                                                                                                                                                                              Hemory() . sent (100)
                                                             void purgelli
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     userID - u-suserID;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            recurn userID -- k.userID && fromHash -- k.fromHash;
                                                                                                                                                                                                                                                                                                                                                                                                                               fromliash - hashwiffrom) :
                                                                                                                                                      eent.InicHashTable(SZ):
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                userID . u-sip;
            DC 069507
                                          CONFIDENTIAL
                                                                HIGHLY
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```
k.seciD(u);
k.setFrom(fromDoc);
nemory.remember(k, ad->id);
nomory.remember(k, ad->id);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          REMEMBERAD . CPP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              // ecturn hashwile);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       // todos nonunique hashes
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          DWOPD Memory: 100kup (Keys k)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  // char buf(101;
// waprintf( buf, *llx*, u->get10() );
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           //DWOPD hash(const char *from. User *u)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 vold Memory::remember(Keys k. DWOPD adID)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 // CString . . bul:
      k.set1D(u);
b.setFromitromDoc);
buppb d • memory.lookup(k);
// OUTCPIT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         void Memory: (purge ()
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    static int count;
if( --count - 1000 ) {
   count - 0;
   purge();
                                                                                      Crit c(last):
// INCPIT
                                                                                                                               DNOPD queryAdSent (User 'u, const char 'fromDoc)
                                                                                                                                                                                                                                                                                                   void remembersend(Ad .ad, User .u, const char .(romboc)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Value v:
v.adSent - adID;
v.time - i.GetTickCount();
sent.SetAt(k, v);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 value value:
if( sent.Lookup(k, value) ) {
   return value.adSent;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CONST LIMIT - 1000 . 60 . 60 . 241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  return 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                message(*remember map > SZ*);
                                                                                                                                                                                                                                                                      Crit cffast);
                                                                                                                                                                                                                                                                                                                                                                                                                                   DWORD now - ..GetTickCount();
POSITION p - sent.GetStartPosition();
while(p) {
return d;
                                                                                                                                                                                                                                                                                                                                                              Hent. GetNextAnsor(p, k, v);
if { now - v.time v LIHIT }
gent. PemoveRey(k);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      29-Dec-1995 17:22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         // too much?
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Page 2(2)
```

sinclude "etdefx.h" sinclude "rememberad.

ADCDGENAD.CPP
// rememberad.cpp

// this is a test
static int cf;
static int cf;
station incrit { ASSERT(cr--0); cr--; }
station outchit { ASSERT(cr--1); cr--; }

const 52 - 107313/

sinclude */d/toolkit/crit.h*

rememberad.h
/d/toolkit/hashwf.h

extern CriticalSection (ast)

struct Key

```
MATCH.CPP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   {\cal H} a truly random distribution is used for them rather than {\cal H} isltovers.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   static int testCounters
                                                                                                                                                                                                                                                        // todo later. If ade are sorted by ei (lowest first).
// you can quit matching se soon as you find
// one. Could be a good optimization.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    // Check remnants (frat. This way, we don't
// have to do ad matching (or any targeted add
// with high Si's.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               // this is temp; eventual all placements will have book rates
// you'll want to remove this to get better performance (no ad matching
// if remnant has worst Si).
                                                                                                                                                                                                                     // do targeted
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     owestSI - SIMAX;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    return adlowestSl)
                                                                                                                                                                                                                                                                                                                                                       // for ade where we don't care about 8 impressions.
// bias in favor of targeted
[[] lowest51 -- 1100 ]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     nds ad - *ads.GetAtill;
[[ ad.type -- Normal &6 |ad.isTargeted() &6 ad.si < lowestSi &6 ad.spreadOX(page) |
                                                                                                               Ada ad . *ada.GetAt(ii);
if( ad.type ... Normal && ad.istargeted() &&
ad.ei < lowestSi &&
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ( 1 .- start )
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1 - 962661
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             for ade with no booking amount.
allow a targeted ad to run sometimee
( lowestSi -- 1100 )
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1 (1 - 1) \ nAds();
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | lowestSI - ad.si;
| adlowestSI - 4ad;
                                                                                                                                                                                                                                                                                                                                              I ... I garenol
                                                                                                                                                                                                                                                                                                                                                                                                                                                             Owest SI ...
// tound a good one lovestSI - ad.aii
                                                   nd.matches(user, pago) 66
nd.emposuresOK(db, user)
                                                                                                   d.apreadOK(page) &&
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ad - *ade.GetAt(I);
ad.type -- Test & ad.ei < lowestSI & ad.criterisOx(db, user, page) )
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      lowestSi - ad.si;
adLowestSi - sad;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                // just try every 4 to save CPU
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        10-Jan-1996 15:15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Page 5(6)
```

```
HATCH. CPP
return adlowestSi;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            // do either a barter ad or an ian dev ad
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1 * (i * 1) % nAds();
if( i ** start )
break;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               tatic int counter!
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            adlowestS1 . sad;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               / do an lan dev ad
                                                                                                                                                                                                                                                                                do barter
                                                                                                                                                                                                                                                                                                                                                    if ( i -- start )
                                                                                                                                                                                                                                                                                                                                                                                                             nds ad - *adm.GetAttill

[[ ad.type -- lanDev ss ad.criterlaOK(db, umer, page) ] {

[ found a good one

adLovestSi - sadi
                                                                                                                                                                                                                                                                   COLSI . SIMAX,
                                                                                          (( | -- start )
                                                                                                                                                                                                                                                                                                                                        breakı
                                                                                                                                                                                                                                                                                                                                                                                                break
                                                                                                                                      owestSt - ad.si;
                                                                                                                                                   d.ei < lowestSI &&
d.eriterisOK(db, user, page) ) {
  (ound a good one
  dLowestSI = &ad;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             10-Jan-1996 15:15
```

٠.

DC 069504

CONFIDENTIAL HIGHLY

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```
also if erretritileName. ..gife) to 0 ) {
    hdr .. *image/gif\r\nContent-Length: *i
    hdr .. *text/html\r\nContent-Length: *i
    hdr .. *text/html\r\nContent-Length: *i
    hdr .. *text/html\r\nContent-Length: *i

                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       eit defined[_IAF] . << fileHame << ' ' << inet_ncos( (in_addrá) userIF ) << '\n';
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CString hdr . ***TTP/1.0 200 OK\r\nContent-Type: *;
if( attatt(tileName, *.class*) | 0 | {
   hdr .- *application/java\r\nContent-Length: *;
}
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                soot lespider . FALSE:
                                 cone buffize . 13800;
char buffnuffize . 2601;
CFIIe (;
                     CrileException for
                                                                                                                                                                                                                                                                                                             int gat . 0;

if etretrirequest, "-Agent: Lycos") !- 0 )

gat . 1;

gat . 2;

gat . 2;
                                                                                                                                                                                                                                                                                                                                                                                                                   Impression () /
                                                                                                                                                                                                                                                                                         If strate(request, *-Agent; WebCrawl*) t- 0 )
                                                                                                                                                                                                                                        1( aut )
                                                                                                                                                                                                                                                                            gnt . Jd
                                                                                                                                                        BIR defined(_CONSOLE)
                                                                                                                                                                                                         iespider - TRUE,
DC 069505
   HIGHLY
```

return TRUE!

```
if( v == CET || v == POST ) {
   if( if.Open(fileName. CFile:ImodePead | CFile:IshareDenyMrite, Lie) ) {
   if( ie.m_cause == CFileException:IsccessDenied )
   sendError(c, "404 Not Found (Access Danied)");
   endError(c, "404 Not Found (Access Danied)");
   else if( if.m_cause == CFileException:IsharingViolation )
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       0100
                                                                   char cemp[100];
icoa(n, cemp, 10);
hdr -- cemp;
hdr -- "\r\n\r\n";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ASSERT! n 1- 0 44 n 1- BUFSIZE );
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           iff isSpider ! (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        char op - bui:
c-swrite( (const char *) hdr. hdr.GetLength() ):
if( v ** CET || v ** POST |
c-swrite(huf, n);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   n . getFileSize[fileName];
iff n .. 0 | |
sendErrortc. *404 Not Found*!;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          // HEAD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        isspider . FALSE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  If gratuitous.lsEmpty() ) (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           . f. read(but. nursize);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            #endError(c. *404 Not Found*);
return FALSE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 int | • strlen(insertStrl:
    nemmove(p • 1, p • 1, strlen(p•1));
    memcpy(p, insertStr, 1);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  return FALSÉ!
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               p = strchr(p. insertChar);
                                                                                                                                                                                                                                                                                                                                                                                               char .p. strettibut. *</body**);
if( p.) {
    (orl int i . 0, i < 20; i . ) }
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  cout << *gratuitous empty. (7)\n*;
                                                                                                                                                                                                                    mendi (
                                                                                                                                                                                                                                    sit defined(_CONSOLE)
cout << */body7\n*;
                                                                                                                                                                                                                                                                                                                                                                                                                                                               Puf [n] . 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 penderroric, *404 Not
                                                                                                                                                                                                                                                                                                            etrepy(p, **/BODY>*/HTML>*);
n * (p - buf) * 14;
                                                                                                                                                                                                                                                                                                                                                                 strcpy(p. gratuitous);
p .. gratuitous.GetLength();
                                                                                                                  // content length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CrileException::sharingViolation)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    03-Jan-1996 15:53
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Page 2(3)
```

pool RequestiisendFile(const char *(ileName, const char *insertStr)

int spider - 01

useriP . from.sin_addr.s_addr:

const char '_request',
const eockaddr_ins (rom) '
c(_c), request(_request), v(_v)

sinclude "etdafk.h"

sinclude "/d/toolkit/sock.h"

sinclude "request.h"

sinclude "/d/toolkit/laf_util.h"

void impression();

÷,

Request I : Request (extern CString gratuitous;

Connection ._c.

BIC defined(_CONSOLE)

// request.cpp REQUEST. CPP

03-340-1996 15:53

Page 1(3)

```
Page 1(6)
                                                                                                                                                                                         HATCH. CPP
                             *insert exposure* values(*:
addvalue(sql, id);
addvalue(sql, user-yget(D(), FALSE);
stroat(sql, ",()*);
                                                                         char aq1 (1024) .
return TPUE;
                   db.exec(sql);
                                                                                                                                            addvalue(eql. user->get(D(). FALSE);
                                                                                                       return TRUE!
                                                                                                                             db.exec(sql),
                                                                                                                                                                                                 18-Jan-1996 15:15
```

// match.cpp MTCH.CPP

10-Jan-1996 15:15

// Ad Matching!

```
extern Ad ·defaultAd;
extern Ad ·badKeyErrorAd;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      pinclude "stdsfx.h"
pinclude "objects.h"
pinclude "/d/toolkit/db.h"
pinclude "/d/toolkit/dbutil.h"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 extern int nextAdi
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             // Returns TRUE if this location is in region.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                INC AND UI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          DOOL Location: infronst Regions regions
                                                                                                                                                                                                                                                                                                                                                                                                                                    pool AdiiexposuresOK(Databases db, User *user)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CString my2lp - ripCode.Left(5), // strip rip+4 for now CString region - region.lipCode.Left(5), Cstring region - region.ripEnd.Left(5),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 if[ region.aresCode != 0 if aresCode != region.aresCode ]
return FALSS;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     return FALSE;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         return regilp -- myzip.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             if( region.xipCode.leEmpty() )
return TRUE;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              iff tregion.erate.leEmpty() is stricmp(state, region.state) (= 0 )
return FALSE;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        return myzip » regzip 16 myzip « regzipEndi
                                                                                                                                                                                                                                                                                                                                                      return TRUE;
                                                                                                                                                                                                                                                                                                                                                                                                        seriesMent - 0;
itt tound ) {
    itt n >= trequency )
    return TALSE;
                                                                                                                                                                                                                                                                                                         tpune) 1000
                                                                                                                                                                                                                                       TRACE("weerid-07\n");
return FALSE;
                                                                                               addvalue(eql. id. FALSE);
errest(eql. and user_id=");
addvalue(eql. user-sget(DI), FALSE);
                                                                                   C. execteq1)
                                                                found - c.tetchWest () ;
                                                                                                                                                 ursor cidb): LONG, in, sizeofin) !:
bind( SOL_C_LONG, in, sizeofin) !:
har ad[[512] - *select exposures from exposures where ad_id**;
```

```
BOOL AdiispreadOK(SitePage *sitepage)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           // Note:
                                                                                                                                                                                                                                                                                      // Does user and site match this ad's criteria?
BOOL Advimatches(User *user, SitePage *sitepage)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     // Impressions OK?
if( nShown >= maximpressions it maximpressions != 0 )
return FALSE;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            iff incarted ) [
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    if ( isspreadevenly!) 44 si >- 1120 l
return FALSE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             // is start-time met?
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              iff itargetSites.isEmpty() ) {
iff airepage -- 0 }
                                                                                                                                                                                                                                   iff mirepage .. 0 )
                                                                                                                                                                                                                                                                                                                                                               return TPUE;
// Operating system
pHOPD o = 1 << ((int) user-von);</pre>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  time t now; a startTime )
return FALSE;
started - TRUE;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              BOOL found - targetSites.Lookup(sitepage-veitelD,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      iff includeSites !
                                                                          return FALSE;
                                                                                                                              BOOL vi
BOOL found • targetPages.Lookup(sitepage->id, v);
if( includePages ) {
   if( ifound )
   if( ifound )
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  any matching required for nontargeted ads can be placed here, since this function is called for both targeting and untargeted
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    // If we have pages to target too, ok if site // docso't match (check if page does next). If ifound it targetPages.lsEmpty[] }
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    return FALSE!
                                                                                                                                                                                                                    return FALSE:
                                                                                                                                                                                                                                                                                                                                                                                                                  return FALSE;
                                                                              // excluding this page
```

DC 069502

char eq1[1024] seriesMext . n . 1;

> CONFIDENTIAL HIGHLY

> > 790 2(6)

```
WICH.CPP .
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               III (0 & 00) -- 0 )
return FALSE;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          // DomainType 0;
int userisP - 0;
int dt - (int) user-sdomainType;
if( dt - (int) dtiSPOther ) {
    useriSP - dt - (int) dtiSPOther + 1;
}
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (() (o & browser) -- 0 )
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     iff locations 1- 0 ) [
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      // Jocation
                                                                                                                       // sales

If salesvolume | 0.7fffffff |

If salesvolume | 0 |

If | 0.6 salesvolume | -- 0 |

Feturn FALSE |
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      // hour of day / day of week
iff hoursofday i- oxffffff || daysofweek i- 0x7f | {
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         o . 1 << user|SP;
iff (o & isp) -- 0 )
return FALSE;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               recurn FALSE!
       // B employees to ox7ffffffff ) [
if (nmployees to ox7ffffffff ) [
o 1/44 user-xncmployees) o
iff (o 4 ncmployees) == 0 )
feturn FALSE;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       o = 1 44 dt;

Iff (o & domainType) -- 0 )

return FALSE;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           BOOL ok = FALSE;

for { 1 n i - 0 i | n nLocations; i + ) {
   if ( user + slocation.in( locations!il ) ) {
      ok = TRUE;
      break;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             // 158
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         return FALSE:
                                                                                                                                                                                                                                     if (hoursotbay & (1 << t->tm_hour)) -= 0 )
return PALSE;
if (daysotweek & (1 << t->tm_wday)) -= 0 )
return PALSE;
                                                                                                                                                                                                                                                                                                                                                                                                                                                    // EST time relative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        return FALSE!
                                                                                                                                                                                                                                                                                                                                          e = user->location.userRelativeTime();
if( t == 0 )
                                                                                                                                                                                                                                                                                                                                                                                                                                         INOU 1 BELL
                                                                                                                                                                                                                                                                                                                                                                                                           . localtime (thow) /
                                                                                                                                                                                                                                                                                                                           return. FALSE,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              // if ISP, don't know location (yet)
DC 069503
   CONFIDENTIAL
                                 HIGHLY
```

18-Jan-1996 15:15

```
Page 3(6)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                HATCH.CPP
                                                                                                                                                                                                                                                                                                                                                                                      // todo: If relead ade, need to handle the (act that one may still be in use and can't just delete. // crit sect released during sending of (i)c.)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           inline BCOL AdiicriteriaOK(Databasek db. User *user. SiteRage *page)
                                                                                                                                                                                                                                                                                                                                                         Ad. AdiigerAdiDatabasas db.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  // sic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              // Site and page categories
// Do last, because this is expensive (disk hit)
(f( isiteCategories.laEmpty() ) {
                                                                                                                                                                                  if page .. 0 1 {
if badkeyErrorAd }
return badkeyErrorAd;
ASSEPT(FALSE);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           return apreadOX(page) &&
(!isTargeted!) || |
(matches(user, page) && exposuresOX(db, user))
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 return TRUE;
                                                                                                                                                                                                                                                                          ill user-suniqueness « utikely )
return defaultAdi
                                                                                                                                                                                                                                                                                                                         CONST SIMAX . 10000001
                                const int start . nextAdi
                                                                  int lowestSi;
                                                                                                                   it! increment ! nexthd . 1) \ nAds():
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  while( 1 ) {

I( 1 ) * nSICCode* ) {

// no match
// Do a test ad, if appropriate. Always do these first so that
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  BOOL ok . FALSE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               sitepage-vloadCategories();

for( int i = 0) i < sitepage-vcategories.GetSite(); i++ )

if( siteCategories.Lookup(sitepage-vcategories.GetAt(i), v) )
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  return FALSE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     iff mitepage .. 0 !
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         while( user-vsicCodes.gctNax(sc) ) {
   i(( pattern.matchesisc) ) {
     ok = TRUE;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SICCodes pattern . sicCodesiil:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            17 Ox 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               er-veicCodes.reset();
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   return FALSE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             break:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         return TPUE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               breaks
                                                                                                                                                                                                                                                                                                                                                                   User *user, SitePage *page, BOOL increment)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                18-Jan-1996 15:15
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005690	DC
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CONEIDENTIAL HIGHLY

// ceep; just return first ad (155)
//return new Adi ade.ElementAt(0)];
return new Adi *defaultAd };
// return 0;
ecndif

Page 9.(9)

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16-Jan-1996 18:10

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DC 069501

CONFIDENTIAL HIGHLY

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ODJECTO.CPP
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(,4,1, ** 3403
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tont ex "ush";
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Domain *d . Domain::lookupDomain(ip):
                                         tout 44 *country 0* 44 location.country;
                                                                                                                                                                                                                                                                   tent as class than 25 (cont as "abrevenue; a) f( polonyolumo )
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                teat as "Fomole";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                toat <a **ab>domain name; <a/break (conot char *) d**adamain <a *\r\n*;
teat <a **ab>do. name; <a/break (conot char *) d**addreno[0] <a *\r\n*;
teat <a **ab>doddreno; <a/break (conot char *) d**addreno[0] <a *\r\n*;
teat <a **ab>abddreno[1] <a *\r\n*;
toat <a **ababa; 1.*; }
toat <a **ababa; }

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                                                                                                                                                                        toat 44 *less than $1MM (unknown)*; dolote d;
                                                                                                                                                                                                                                                                                                                                                                                                                                         tont as .\r\nabino. empl. i
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                tent 4 d-valcCodeall) 44 . . .
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DWORD lovels
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                                                                                                                                                                                                                                                 test as colectolume;
                                                                                                                                                                                                                                                                                                                                                        (unknown) * /
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                //domainName
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ASSERT (FALSE);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     char buf [256] .
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      NetworkNumber ni
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Cursor c(db) i
                                                                                                                                                                                                                                                                        iff c.timedOut() )
*timedOut + TRUE;
                                                                                                                                                                                                                                                                                                                    c.exec(bul)
                                                                                                                                                                                                                                                                                                                                                                                                                                      c.bindilocation.state);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CString deach
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             return;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              db.commit():
                                                                                                                                                                                                                            c. fetchwest ();
                                                                                                                                                                                                                                                                                                                                                      C. DECTIMEOUT (1) /
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   bind ideac
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      text 44 bul;
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CString categorys

```
"select interest_level.category.name (rom interests,user_interests)
where interest_id.id-interest_id and user_id-lid\
order by interest_level DESC*, userID);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            void User::_getNetworkInfo(Databasek db. BOOL *timedOut)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        If domainType : dtUnknown | {
// got dt from header info
// if 15P/OSP, location and sales, etc. don'
// it us have done a tracert, location does
// for 15Ps/OSPs, dtNetcom | // did tracert
if domainType :- dtNetcom | // did tracert
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           n - justNetworkNumber(Ip):
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         // Note: do the following for
                                                                                                                                                                                                                                                                                                                       c.bind(SQL_C_LONG, &location.areaCode, it | timedOut != 0 )
                                                                                                                                                                                                                                                                                                                                                                                                        c.bind(SQL_C_LONG, elocation.country, elzeof(location.country));
                                                                                                                                                                                                                                                                                                                                                                                                                                              streatt buf. n.sqlStrf) l;
                                                                                                                          if uniqueness -- uUnknown ss (int) domainType >-
uniqueness - uUnlikely;
                                                                                                                                                                                                                                                                                                                                                                  c.bind(location.zipCode);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           iff domainType + dtAOL ) {
                                                              iff domainType >- dtAOL ) (
palesvolume - 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      c.bind(SQL_C_LONG. &level.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        while( c:(etchNext() ) {
   char buf(32);
   char buf(buf, *\)4]d
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  c.bind(SOL_C_LONG, &domainType, sizeof(domainType);
c.bind(SOL_C_LONG, &salesVolume, sizeof(dsalesVolume)); salesVolume •
c.bind(SOL_C_LONG, &salesVolume, sizeof(nEmployees)); nEmployees • 0;
c.bind(SOL_C_LONG, &nEmployees, sizeof(nEmployees)); nEmployees • 0;
siccodes.bind(c);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         stropy(but, "pelect country, state, ziprode, areacode from networks where netnumber-");
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 *select_domain_type.sales.num_employees.sic.country.state.zipcode.areacode
sicCodes.makeNull();
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             text ca category cc.
           deneccom
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  . levell;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         . ** desc ** *\r\n*!
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            <u>-</u>
              •
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         // did tracert for netcom
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          domain types to at least get country
              domainType 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           16.Jan-1996 10:10
                                                                                                                                                                                                                                                                                                                                                             mizeof (location.areaCodel)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Yidde 1, uop
                     disrother ) (
                                                                                                                                                                     ( JOK) dtAOL )
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     from networks.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Paga 6 (9)
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OBJECTS. CPP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   sif idefined(_DERIVE)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             const char cCookiell - "Cookiei"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     "old User: liftVer(const char *verStr)
                                                                                                                                                                                                                                                                                                         User: User: lookupUser(Databases db. DMOPD ip. const char *requestHdr. BOOL loadDemographics. *
                                                                                                                                                                                                                                                                                                                                      extern defaultAdaMode;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                User. User::_lookupUserByAddress(DWORD 1p)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          int v1 - 0, v2 - 0;
secant (verstr.
secant (verstr.
secant (verstr.
secant (verstr.
bver1 - v1;
bver2 - v2;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       .. 'Js : 11_lookupUserByID(DWORD userID)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      :
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Teturn us
                                                                                                                                                                                                                                                                                                                                                                                           return 0,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        DAPP weerID . networkNodeTable.getUserID(Ip. FALSE);
                                                                                                                 // ......
// lookup
                                                                                                                                                                                const char *ck| * stratrfrequestHdr. cCookie);
                                                                                                                                                                                                          Cookie cookies
                                                                                                                                                                                                                                                                                                                                                                                                                                    I( userID ) (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              [[ userID .. 0 ]
                                                                                                                                                                                                                                                                        BOOL_timedout - realTime 7 &_timedout : 0;
                                                                                                                                                                                                                                   // get cookie for lookup
                                                                                          User .u . 01
                                                                  Iff tcookle.isNull() ) {
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        elcCodes.checkHull();
                                                                                                                                                                                                                                                                                                                                                                                                                 return _lookupUserByID(userID);
                                                                                                                                                                                                                                                                                                                                                                                                                                                         userID - natworkHodeTable.getUserID(justNetworkHumber(Ip), TPUE);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      // Try to get domain into at least. Note: if user is uniquely // identifiable, derive data process will create a record for the // user as soon as it gets a chance.
                                                                                                                                                        cookie.getFromHeader(ck, *|AF*);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          // don't know location, except country location, state. Empty(): location; sipCode. Empty(): location; areaCode * 0:
                              . suniqueness - uYesi
vip = ip;
suserID = cookie.value;
vcimedOut = TRUE;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 16-Jan-1996 18:10
                                                DC 099499
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                                                                   HICHEL
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ORJECTS.CPP
                                                                                                                                                                                                                                                                                                Ad. Ad:: lindSentTo(User *user, const char *(romDoc)
                                                  aif defined (errlog)
                                                                                                                                                                                                                                                                                                                                      // SicePage
                                                                                                                                                                                                                                                                                                                                                      //-----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              else ill !_timedOut ) {
u = _lookupUserByAddressidb.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          u->headerDerive(requestHdr);
                                                                                                                                                                                         for int i = 0; i = nAds(); i+ ) {
   Ads ad = *ads.GetAt(i);
   if ( ad.id -= adtum )
                                                                                                                                                                                                                                                                DWOPD adNum + queryAdSent(user, fromDoc);
                                                                                                                                                                                                                                                                                                                                                                                                         return uj
                                                                                                                                                                                                                                                                                                                                                                                                                                         if( loadDemographics is i_timedOut i
u->_getNetworkinfo(db, realTime ? su->timedOut i 0);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    iff !cookie.isNull() )
u->hasCookie - TRUE;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             111 ... 0.7
                                                            iff user-suniqueness so utikely ! [
                                                                                                  i(| badkeyErrorAd && adNum -- badkeyErrorAd->id )
return badkeyErrorAd;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   // make a default user object
u - new User/
//u-vuniqueness - uNo;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               u-stimedOut . _timedOut;
erriog <* "[indSentTo failed uniqueness-likely\n";
erriog <* "user: " <* user: suserID <* '\n';
erriog <* " from doc: " <* fromDoc <* '\n';
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                // lookup by cookie
u - _lookupUserBylDidb, cookie.value, tmout);
if( u ) {
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  u...hasCookie - FALSE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  u-sip . ip:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  u-suniqueness - uYest
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           // Note: generally, this shouldn't happen-cookie.value = 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     u-vuniquences - uYesi
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           defaultAdsMode ) {
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             . new User/
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Couldn't find user record, we will need to assign a new cookie. Do not load by IP, because we don't want this user sharing a record we don't want thout cookies.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        superio - cookie.value:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              lp. (mout):
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   16.Jan-1996 18:10
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sinclude stdafa. "
                                                                                                                                                                                                                                                                                                            // objects.cpp
                                                                                                                                                                                                                                                                                                                        16-Jan-1996 18:10
    DC 069496
CONEIDENTIAL
HIGHLY
                                                                                                                                                                                                                                                                                                          *Peserved for ISP Names*
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סשורוש. כדף
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 const char *dowStrll * (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  #If idefined[_JUSTSTRINGS]
                                                                                                                                                                                                                                                                                                                                                                                                                          extern Ad .defaultAd:
                                                                                                                                                                                                                                                                                                                                                                                                                                                  sic idectined (_DERIVE)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               extern Ad .badxeyErrorAd;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        int nextAd . 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       extern ofstream errlogi
                                                                                                                                                                                                                                                                                                                                                             BOOL User::cookleCapable() const
                                                                                                                                                                                                                                                   void User:ideriveDomainTypeFromDrowser{}
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    11pm-12am*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Thursday".
DWOPD UseringetID() const
                                                                                                                                                                                                                                                                                        return browner .. brietscape 44 (bver2 >- 1 || bver2 > 1);
                                                                                                                                                                                                                                                                                                                                      // todo: add now version of Internat Explorer
                                                                                                                                                                                                      domainType - dtAOLI
                                                                                                                            domainType - dtProdigy;
                                                                                                                                                                  someintype . dtEworld;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  //toolkit/laf_util.h.
                                                                                          inType - dibelphi:
                                                     DC 069497
                                 CONEIDENTIVE
HICHEN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Page 3.(9)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       OBJECTS. CPP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          User i iUser ()
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              void Useriidescribe(Databases db. atratreams text)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          domainType - drUnknown;
for( int i - 0; i < MAXSICS; i...)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               return useribi
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   isNetworkDescription •
ftpTried • FALSE;
hasCookie • FALSE;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  browser . brunknown;
bver1 . bver2 . 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    uniqueness . uUnknown:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                timedOut . FALSE1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        in_addr ipAddr . (in_addri) ipr
text << *<br/>text << *<br/>
*/b>*
                                                                                                                                                                                                                                                                                                                                                          addvalue(sql. a.l.emailname. FALS
attent(sql. a.u.d.domain.a);
adavalue(sql. a.l.domain. FALSE);
                                                                                                                                                                                                                                                                                     file (fetchNeart)) {
   i(l g.GetLength))
   gender * g.GetAt(0);
   name * [ • ] ;
                                                                                          es cicle ee *\r\n*1
                                                                                                                               domainTypeHames[domainType] << "\r\n";
[proxy ? "Yes"; "Ho"] << "\r\n";
                                                     location.state < *\r\n*;
location.sipCode << *\r\n*;
location.areaCode << *\r\n*;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 16-Jan-1996 18:10
                                                                                                                                                                                                                                                                                                                                                                                                         ], lnumel from listings where emailname. •!
                                                                                                                                                                         cc lint) bver2 << *\r\n*;</pre>
```

```
GETREQUEST . CPP
                                                                                                                                                                     void GetRequest, hetivity/const char *activityStr)
                                                                                                                                                                                                                                                                                                       void GetRequestiisendFrame(const_char *from) {
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Ad .ad . AdiifindSentTolueer, from);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SitePage 'page . SitePage::lookupPage((rom, request);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  delete usera
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      test 44 "jumping from document: " 44 from 44 "\r\n";

test 44 "jumping from document: " 44 from 44 "\r\n";

44 ** A hrefe\" 44 (const cher *) ad->jumpio 44 "\r\n\r\n";

44 (const cher *) ad->jumpio 44 "4/a>\r\n\r\n";

44 (const cher *) ad->jumpio 44 (const cher *) ad->fu

test 44 "
                                                                                                                                                                                                                                                                                                                                                                  delete page:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            etrotream text(buf, 12000.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               catting in a do-villeHame;
text 44 "accentersaims erc-\"/*
44 (const cher *) in
44 "\"";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             // fill content
                                                                                                                                                                                                                                                                                                                                                                                                                                         c-purite (const char *)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               hdr .. .\r\n\r\n.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1coa(n. cemp. 10);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   text ee "e/prese/bodyse/htmls";
                                                                // send the file first
ActivityType type:
CString siteMey:
BOOL ok - TRUE:
                                                                                                                                                                                                                  e .. *\*>\ne/e>4/centerv4/html>*; // Width4468 Height+60
c-purited (const char *) s. s.Cettength() );
                                                                                                                                                                                                                                                                            CString s . "HTTP/1.0 200 OK\r\nContent-Type: test/html\r\n";
e . "r\nanmus-800y><CENTER><a href=\\http://206.4.219.3/jump/-;
                                                                                                                                                                                                                                                                                                                                                                                                                 logJump(ad. user, page):
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Char temp[100]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          int n . test.prount ();
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       returni
                                                                                                                          BOOL bad . FALSE
                                                                                                                                             // go shead and send for best response time sendFile("c:\\isn\\html\\dot.gif");
                                                                                                                                                                                                                                                      .. -\->\neimg src-\-http://206.4.219.5/ad/-i
                                                     witcht .activityStr )
type - Interest:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  // (1x1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             :
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             content length
                                                                                                                                                                                                                                                                                                                                                                                                                                                            hdr, hdr.GetLength() );
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     10011001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ce (const char s) ad-stullName() ce *\r\n\r\n\r\n*)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       10-Jan-1996 17:12
                                                    DC 000404
                                 CONFIDENTIAL
                                                              НІСНГА
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Page 5(8)
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```
GETREQUEST. CPP
                                                                                                                                                                                                                                                                                                                                                     :
                                                                                                                                                                                                                                                                               void GetPequest: sendAd(const char * (rom)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              if( ok ) {
    conne (bar 'p' activityStr' 'l'
    if( 'p' i '/' )
    if( 'p' i '/' )
    ok - FALSE;
                                                                                                                                        static DMOPD lastFTP;
startLatency = GetTickCount();
                                                                                                                                                                                          Database • db • getfromPoolTimeout();
                                                                                                                                                                                                                                            ill from && attnicmpifrom.
                                                                                                                                                                                                                                                                                                                                                                                                             iff !ok ) {
                                                                                                        User .user!
umer - Umericiookupumeriinb, umerii, request, thue, thue);-
iii ub -- 0 ) {
    page - 0;
                                                                        Ipe. PV
                                                                                        SitePage .page!
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Database 'db - getfromPooli);
User 'user - User::lookupUser('db, userip, request);
                                                                                                                                                                                                                                                                                                                                                       message | CString (*invalidate activity stri *) *
CString (activityStr).Left (80) | 1
sendError(c. *404 Not Found*) |
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               DWOPD advertiserID - 0/
// todo: fix if not assigned a user ID. (use IP)?
iff user-vaserID i= 0 ) // if not from tAN, skip logging
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    db.,commit();
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   delete user;
releaseToPool(db);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          type - infoRequest;
break!
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                [[ ok ] ]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          type - Sale;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Cursor c(*dbl.)

C.bind180L C_LONG. LadvertiserID. sizeof(advertiserID));

Char sq111024] - "select id from advertisers where sitekey-";

char sq111024] - sitekey. FALSE1;

C.exec(sq1), sitekey. FALSE1;

Ok - C.fetchhoxt();
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ok . FALSE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ok . FALSE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 const char 'q - strchr(p. '/');
i(1 q -- 0 )
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              iractivity**;
if( advertiserID !* 0 }
logActivity(user, advertiserID, type);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         nitekey . Cstringlp. q .
                                                                                                                                                                                                                                                             • (1) • (mu)
```

· (11)

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```
// !!! v -- GET) |
// TRACE("get %a\n", (rom);
// )
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               GTTREOURST.CPP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    9100 (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    BOOL doff? . luser-stempUserObject() && ulikely && luser-sprpxy && luser-stepTried && user-suniqueness >= ulikely && luser-sprpxy && rand() < randCutoff && (startLatency - lastFTP > 6000); pwoRD dw;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ad . AdiigetAd (*db. user, page, v .. GET);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       etacle int randCutoff - 0; //RAND_MAX /-4;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            dw . waitForSingloObject (ftpMutex, 0);
(ft doFTP is dw i. waiT_YAILED is dw i. waiT_TIMFOUT ) {
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    page - SitePage:.lookupPage! db. (rom, request);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         // Remember that we're doing FTP (or user. Only do once.
user-vitpTried - TRUE;
user-supdateFTPTried(*db);
                                                                                                                                                                                                                                                                                                                                                                                                                                VERIFY( ReleaseMutex (ftpMutex) );
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      erriog << "Trying FTP\n";
erriog << " user " << user->geriD() << '\n';
erriog << " browser " << browserNames[(int) user->browser] << '\n';
erriog << " ur) " << e << '\n';
                                                                                                                                                                                                                                                                                                                                db->commit();
relesseToPool(db);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                eendErroric. "Jo2 Moved Temporarily". #);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   lastFTP - startLatency;
                                                                                                                                                                                                                                         //r.co.leave();
send(*db. ad. user);
//r.co.enter();
                                                                                                                                                                                                                                                                                                                                                                          erriog. (lush();
                                                                                                                                                                                                                                                                                                                                                                                                     logAdsend(ad. ueer, page);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 String (n . ad->getFileName();
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    string a . *Location: *!
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             printf(buf. "lix", user->getiD());
                                                                                                                                                                                                                  etatic Int counter:
                                                                                                                               rememberSendiad, user, (rom);
logAdSendiad, user, page);
lfi user-vtimedOut ) (
                                                                                                                                                                                          ad-scalcSI();
bb andward . GetTickCount();
bb andward . GetTickCount();
'se(endlatency);
                                                                                   E imeOut see!
                                                                                                         MOITIMEOUT 8...
                                                                                                                                                                                                                                                                  // this function calls releaseToPool()
                                                                                                                                                                                               // update
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          18-Jan-1996 17:12
                                                                                                                                                                                                    every 4 or so deliveries
                                                               DC 000402
                              CONEDENTIVE
HICHEA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Page 7(8)
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```
// delete ad:
delete page:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CETREQUEST. CPP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         void GetPequestiitsheJump(const_char ._(rom)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 jumpingWhere(from):
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Database 4db . .getFromPool();
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    _[rom is attricemp(_from, "www.", 4) += 0 }
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  User 'user . User::lookupUseridb, userip, request, FALSE!
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CString from:
              delete page:
delete user:
delete user:
db.commit();
                                                                                                                                                                                                                                                                                                                   Ad *ad * AdiifindSentfoluser, from!:
SitePage *page * SitePage::lookupPage(db, from, request);
                                                                                                                     // Hust do this so activity will be logged properly.
// See GetPequestilactivity().
user-makePermanent(db);
                                                                                                                                                                                                                                                    CString s . *Location: ";
e .- ad->jumpTo;// . *?{rom-laf*;
                                                                                      logJumplad, user, pagel:
                                                                                                                                                                                                        c-sclose(),
releaseToPool (4db);
                                                                                                                                                                                      /(.cg.enter();
                                                                                                                                                                                                                                                                                    //f.co.leavell:
                                                                                                                                                                                                                    endErroric, *101 Moved Permanently*,
                                                                                                                                                                                                                                         .. ././^.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            const char *p - strchr(_from.
f(| p -- 0 ) {
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   adSendTimeWaw(endSend - atartLatency):
                                                                                                                                                                                                                                                                                                                                                                                                                                from . [rom:
char bull5121:
veprint(|bul, 'no ismap td. lm', umer ** 0 ? 999 | (int) user->browser, (const char **
message(bull)
                                                                                                                                                                                                                                                                                                                                                                                  from . CStringl_from. p . _from);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             18-Jen-1996 17:12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Page 1(1)
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,/ getraquest.cpp
;/
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CETALOUEST. CPP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          .include
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        include cetdata.h.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  // requests right now because
// only does one at a time.
//
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               sinclude */d/toolkit/db.h*
sinclude */d/toolkit/dbutil.h*
sinclude */d/toolkit/dbpool.h*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              // This used to prevent multiple concurrent FTP // requests right now because our FTPD implementation
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        DWORD startlatency, endlatency!
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   const char 'progName - 'AdSvr';
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                extern offeream erriogi
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              extern CriticalSection fast:
//extern Database latmain:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               l)nc)ud
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         void receicSI();
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     vold message (const char .);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 extern const char .browserNames[]:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 include
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       vold GetRequest::service()
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   extern MANDLE (tpMutex)
                                                                                                                                                                                                                                                                                                                                                                 elec [[ (1] ekame.Left [4] ... */ad/* ]
elec [[ (1] ekame.Left [9] ... */adf
end/diffene [[ (const char ) [] ekame
end/rame [[ (const char ) [] eka
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     const char .b . etrchr(request. . .);
                                                                                                                                                                                elec if ( lleName.Left(6) -- "/viowad/" ] (
CString esflieName;
esflieName.format( "c:/ian/ade/Ne", (LPCTSTR)(lleName+8);
eendfile( esflieName );
                                                                                                                     else if fileHame.Left(11) .. */state.htm?* ) {
    sendStrorft. *ioi Hot Found, Resulte (orecast
    //state((const char *) (ileName * 11);
    //state((const char *) (ileName * 11);
                                                                         else if fileName.Left(10) ... */sendinfo/* ) (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CileName . CString(request. p . request):
// send info stuff
si_((const char *) (lleName * 4);
                                                                                                                                                                                                                                                                                                                                                                                                                                            [1]eNume - request;
                                                                                                                                                                                                                                                                                           e iti (ilekame.Left(10) .. */activity/.
activity((const char ·) filekame . 10)
e iti filekame.Left(7) .. */whoami* )
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ·/d/toolkit/crit.h.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ·/d/toolkit/ist_util.h.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                */d/toolkit/sock.h*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            estrotres.hv
                                                                                                                                                                                                                                                                                /Crit citaet);
                                                                                                                                                                                                                                                                                                                                                        ice tilename. Letti61 ...
                                                                                                                                                                                                                                                                                                                                 ·/activity/* )
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   18-Jan-1996 17:12
                                                                                                                                                           moved to another
                                                                                                       DC 069492
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Page 1(8)
                                                                     CONFIDENTIAL
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             GETREQUEST. CPP
                                                                                                                                                                                                                                                                                                                                 // send() should commit the DD if it does any DD operations because // the caller commits alread of time so that the transaction won't // remain open while the file is sent.
                                                                                                                                                                                                                                                                                                                                                                                                           const char clicaderil .
-!!TTP/1.0 200 OKYPANContent-Type: image/gif/r/inContent-Length: *;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              else iff fileName.teft(9) .. */sysstato* ) {
sysState();
                                                                                                                                                                                                                                                                                                                   vold Getpequestiisend(Databaset db. Ad. Jd. User 'ul
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     // Normally we adjust SI for an ad as it is delivered.
// However, occasionally should do all ads in case one hasn't
// been delivered but time has passed.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           111 .. counter + 200 1 (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            static int counters
                                                                                                                                                                                                                                                                                       CString hdr . cHeader;
                                                                                                                                                                                                                                          const BUFSIZE - 32000;
char buf[BUFSIZE];
                                                                                                                                                                                              Cookie sendCookies
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       const char *p = [[]eName:
if( strnicmp[p, "/]ava/",
if( stratt[p, "..*) --
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     recalcS1():
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1 36 (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ( ·/· ·· ·/· )
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     sendError(c. *404 Not Found*);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       counter . 175:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         sendError(c. *404 Not Found*);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          eendfile(p):
                                                                                                                                                                  id u->hasCookis ) {
id u->cimedOut }
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                itt //strchr(p. '/') .. 0 it strchr(p. etrstr(p. '..') .. 0 l
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                iendFile(*c:\\ian\\html\\default.htm*);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                / send default
                                                                         // It a user record already exists, it's probably because i/ this ip address is shared with other users (proxy, ip pool. // this ip address is shared with other record; we don't want // etc.) So, we want to create another record; we don't want // to assign the same cookie to different people!
                                           // generate a cookie for the uner
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CString f . "c:\\lan\\html\\";
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            >
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as traffic increases

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18-Jan-1996 17:12

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CETREQUEST. CPP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          // hdr .. *\r\nPragma:-no-cache*;
                                                                                                                                                                                                                                                                                                                                                                       // diagnootic
void CathaquaatijayaStatei)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   itosin. temp. 10); // continue ... temp. 10); // continue ... temp. 10); // continue ... // co
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CString 0 . bd.-fullHame();

CString 0 . bd.-fullHame();

It | It.Openia, CFile:imodeRead | CFile:inhareDenyMrite) ) {

reacoage | CString("couldn"t open ") + o );

rpACE("couldn"t open %%n", (const char *) o);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         char tomplical,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    e-perited (conot char +) hdr.
it! v -- GET |
e-periteibul, n):
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    andLatancy . GetTickCount();
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      hdr .. .\r\n\r\n.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   // last-modified time
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1/8008
                                                                                                                                                                                                                                                                                                                                  otatic char *typostrail . !
                                    CString hdf "200 OK/r\nContent-Type: text/html\r\nContent-pength: ";
char buf[13000];
out = 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           n - getPiloSize( ad->(ui)Name() );
// noat line io a teot for MCSA Modaic MEAD
//n - 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               relessetoPool (4db) /
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      // release DB here so that we don't keep a db connection occupied // while pending the ad db.commit();
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               n . (.Rood(buf. BUFS12E))
ASSERT( n !- 0 && n !- BUFS12E );
         otrotroom tentibut. 12000. los ... jutil
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    waprintf(tamp.
*\r\nset-Cookia, thr**\lambda, path=/; ampirea-Med. 09-Nov-99 2):59:00 GMT*,
pandCookia.value);
                                                                                                                                                                                                                      ·lan bev. );
                                                                                                                                                                                                                                                                                    .3001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ASSERT (FALSE)
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u-smakoPermanent (db);
oendCookie.value - u-sget1D();
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        // content length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   hdr.GetLength() ):
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CUSHTTPTIme(),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  10.Jan-1996 17:17
                                                                                     DC 069493
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                                CONFIDENTIAL
                                                                                                                   ніснгь
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     // diagnostic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      text <
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            // It isn't reloaded or anything while we are processing parabase 'db . getFromPool():
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       // Get a db connection to lock the ads array so that
                                                                                                                                                // diagnostic void GetRequest::jumpingWhere(const char *(rom)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             tor( int i . 0; i < ads.GetSize(); i.. ) {
Ad .ad . ads.GetAt(i);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     c-swrite( (const char *) hdr. hdr.GetLength() );
c-swrite(buf, n);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         text << "</table>";
text << "</body></html>";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              releaseToPool (db) i
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               itoain, temp. 1011
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   char temp[100];
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          int n . text.pcount () :
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Database 4db . .getfromPool():
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 hdr .. '\r\n\r\n'.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        User .user . Useri lookupuseridb.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 // [1]] content text << "chtml><body bgcolor=#fffffff*chl><thG SnC-\"ianlogop.gif\" ALIGN-\"BOTTOH\">VDeer In* text << "chtml><body bgcolor=#fffffff*chl><br/>text << "opre>"!
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CString hdr ...
"HTTP/1.0 200 OK\r\nContent-Type: text/html\r\nContent-Length: ";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          user..lookupAncillaryIntoidbl;
                                                                                                                                                                                                                                                                                                                                                      c-swrite( [const char *) hdr. hdr.GetLength() );
c-swrite(buf, n);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  stratream text(but, 32000, 109110ut);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             char buf[)2000];
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              that temp[100];
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                text ** **/pre>*/body**/html>*;
                                                                                                                                                                                                                                                                    delete user:
relesseropool(idb);
                                                                                                                                                                                                                                                                                                                                                                                                                                                  hdr .. temp:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             icoain, comp. 101;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          text << ad->fileHame << "\"," << ad->fileHame << "</td>";
text << "<td>" << typeStralad-xtype) << "</td>";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   text or "etryotdyes hief-\"http://sd.lantargets.com/viewsd/";
User *user * UseriilookupUserluserlP, request, FALSE);
                                                 // (ix for multi-db conns
                                                                                               ASSEPT (FALSE)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         // content length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           :
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              content length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              pressions << ~</td>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     userif. request);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 18-Jan-1996 17:12
```

Pago 4 (0)

// Elli content

"lacbody bgcolor-Ullllllllalrin"

СОИЕШЕИТ НІСНГА

return gmtime(åttTime);

```
einclude *etdafx.h*
einclude *objects.h*
sinclude */d/toolkit/mapstate.h*
einclude */d/toolkit/trutil.h*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        // next line should be in trutil.h extern CountryTimeZones:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           a. Location: .userPelativeTime( time_t timePelative )
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  truct lebaylightSavings
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     book daylightSavings:
ids;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  if( country -- 256 ) {
   if( igetStateTimeZoneInfo(state, utc_offeet, daylight_blas) }
   return PALSE;
                  ift ide.daylightEavinge && daylight_bise !- TZ_DIAS_UNDEFINED |
    ttime :- daylight_bise * 60 * 60;
else
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  leDaylightSavinge()
                                                                                                                                      // If timeRelative or 0, this assumes that they want the time // relative to the current time terime - timeRelative; if (ittime)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          int utc_offeet;
                                                                                                                                                                                                                                                                                                                                                                                                                                              return FALSE:
                                                                                                                                                                                                                                               oime_t ttTime;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TIME ZOME INFORMATION IN DWORD T - Cettimezoneinformation(&!);
daylightSavings - T -- TIME_ZOME_ID_DAYLIGHT;
                                                                                                            ( fme (AttTime) ;
                                                                                                                                                                                                                                                                                                   ute offeet . LOWORD (dw81ae);
day11ght_biae . HIWORD (dw81ae);
                                                                                                                                                                                                                                                                                                                                                         bwind dwilse:

![{ |mapCountryTimeZones.Lookup(country, dwilse) }

return FALSS;
strime .. utc_offeet . 60 . 60;
```

Page 1(1)

22-Dec-1995 11:01

// location.cpp LOCATION. CPP

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CONFIDENTIAL HIGHLY

```
sinclude "etdsfx.N"
einclude "objects.h"
sinclude "/d/toolkit/isf_util.h"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  HEADER.CPP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          // header.cpp
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           pool Useriicheck(CStrings userAgent, const char *pat, Browser b, OS of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         vold message (const char *);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   const char cBrowser() . *User-Agenti*)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            vold UserialiftOS(conet CStrings userAgent)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              static void match lost oa, const char *userAgent, const char *pat, os ol
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Iff broweer to brunknown )
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     it! stretr(userAgent, pat) 1- 0 }
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               int | . etrlenipati; | pat | [
                                                                                                                                                                                                                                                                                                                                                                                                                                                iff userAgent.Find(*X11*) >- 0 ) {
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            return PALSE:
                                                                                                                                                                                                                                                                                      else ift userAgent.Find("Windows") >= 0 ) (
ift userAgent.Find("32bit") >= 0 ||
tuserAgent.Find("95") >= 0
                                                                                                                                                       else if ( userAgent.Find(-win95") >= 0 ) {
os - oswin95;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        return FALSE,
                                                                                                               lee if ( userAgent.Find("Win16") >= 0 ) {
    os = osWin16;
                                                                                  itee If ( weerAgent.Find( Macintosh ) > 0 ) (
    else it! userAgent.Pind("winHT") .> 0 ) (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TOLUTA TRUE!
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (( p ) (
                                                                                                                                                                                                                                                                                                                                                                                              matchios.
                                                                                                                                                                                                                                                                                                                                                                                                                    matchios, userAgent, sunoss, osuniasun);
                                                                                                                                                                                                                                  os . osMin32;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     met cher .p . userAgent:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Oweer - b2
                                          matchios, userAgent, *PPC*, osMacGS);
matchios, userAgent, *68K*, osMacGS);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 liftverip . 111
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         0
                                                                                                                                                                                                                   os . oswinier
                                                                                                                                                                                                                                                                                                                                                   De. userAgent. "HP-UR", OSUNIXIIP);
De. userAgent. "Linux", OSUNIXOSFI);
De. userAgent. "OSF", OSUNIXOSFI);
De. userAgent. "AIX", OSUNIXAIX);
De, userAgent. "IRIX", OSUNIXAIX);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  20-Dec-1995 17:31
                                    DC 069489
CONEIDENLIVE
                                      HICHEL
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          HEADER. CPP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           {\cal H} derive information about the user from the request header {\cal H}
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           void Useri:headerDerive(const char *requestHeader)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   const char 'us . stretr(requentHender, chrowser);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        111 us .. 0 )
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               .. userAgent.Left(70):
message(a):
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              uniqueness - uUnlikely:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           // it no user agent tield, something weird we
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               const char *p . strchr(ua. '\r');
if( p ) {
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        while to the total
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CString userAgent(us. p. us):
it( userAgent.Left(8) ... *Mozills/*) {
   browner - brNetsCape;
   browner - brNetsCape;
   liftVer((const char *) userAgent * n);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           : ::
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      else ([[ userAgent.Left([12] .. *NCSA Hossic/* ] {
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          clse if ( stracmptuserAgent, -| WENG/-, 6) -- 0 ) (
                                                                                                                                                                                                                                                                                                                                                                                                          else itt strocmptuserågent, "nolbrouser/", 10) .. 0 | {
brouser - bradi;
                                                                                                                                                                                                                                                                                         else if ( userAgent.Lett(28) .. "Microsoft Internet Explorer/" ) (
// Microsoft 'Internet Explorer/4.40
browser . brMicrosoft)
                                                                                                                                             else iff userAgent Left(16) .. .Enhanced_Mosaic/" ) (
browser - brEnhancedMosaic/
                                                                                                                                                                                                                   else if ( userAgent.Left(8) .. "HotJava/" ) {
                                 matchios, userAgent, "Mindows", osMin);
matchios, userAgent, "XIII", osUnixUnknown);
matchios, userAgent, "X Mindow", osUnixUnknown);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            browser . brNCSA:
||| | brNCSA: | userAgent . 12|:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     uniqueness • uNO;
domainType • dtAOL;
jiftver((const char •) userAgent • 6);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               browser . brAOL:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ] i (tOS (userAgent) i
                                                                                                                                                                                                                                                                                                                                                                    uniqueness • uNo:
domainType • dtAOU;
liftVer({const char •} userAgent • 11);
                                                                                                                                                                                        littver((const char +) userAgent + 8):
                                                                                                                                                                                                                                                 matchios, userAgent, *Windows 95*, oswin95);
                                                                                                                                                                                                                                                                                                                                                      os . osMac:
                                                                                                                                                                                                        browser - brHotJava:
                                                                                                                                                                                                                                                                   09 . 09410321
                                                                                                                                                                                                                                                                             liftVeri(const char +) userAgent + 28);
                                                                                                                                littver((const char .) userAgent . 16);
                                                                                                     iff userAgent.Find("Win32") >- 0 1
                                                                                            OS . OSWIN32:
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20-Dec-1995 17:31

Page 2(3)

DC 069486

**CONFIDENTIAL ASSESSMENT TO HIGHEN

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extern int barter, lander, testAds 02-340-1996 14:34

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virtual void mervicetti
void whomili)
void demandiconet char "(rom);
void demandiconet char "(rom);
void dendiconet char "(rom);
void mendiconet char "(rom);
void mendiconet char "(rom);
void takeJump(conet char "(rom);
void mystete();
void mystete();
void mendiconet char "uri);

FREQUEST. H

11-Jan-1996 13:25

getrequest.h

see Cethequest | public Request

nclude "request.h"

eline _GETREQUEST_H_)

EXHIBIT B

CONFIDENTIAL HIGHLY

// remembered.h void remembersendind *ad. User *u, const char *fromDoc); // returns Ad ID proper on const char *(romboc);

26-8sp-1995 12:39